

SEQ ID NO	Sequence
1	Ac - HSDAVFTDQYTRLRKQVAAKKYLQSIKQKRY
2	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIKQKRY
3	Ac - HSDAVFTDQYTRLRKQVAAKKYLQSIKQK
4	Ac - HTEAVFTDQYTRLRKQVAAKKYLQSIKQKRY
5	Ac - HSDAVFTDQYTRLRKQLAVKYLQDIKQGKT
6	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIKQKR
7	Ac - HSDAVFTDQYTRLRKQLAAKKYLQTIKQKRY
8	Ac - HSDAVFTDQYTRLRKQMAAKKYLQTIKQKRY
9	Ac - HSDAVFTDQYTRLRKQMAAHKYLQSIKQKRY
10	Ac - HSDAVFTDQYTRLRKQMAAKHYLQSIKQKRY
11	Ac - HSDAVFTDQYTRLRKQMAKKYLQSIKQKR
12	Ac - HSDAVFTDQYTRLRKQMAKKYLQSIKQKR
13	Ac - HSDAVFTDQYTRLRKQMARKKYLQSIKQKR
14	Ac - HSDAVFTDQYTRLRKQMASKKYLQSIKQKR
15	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIQPKR
16	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIQQKR
17	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIRQKR
18	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIKQRR
19	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIKQKA
20	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIKQKF
21	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIKQKH
22	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIKQKI
23	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIKQKK
24	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIKQKL
25	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIKQKM
26	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIKQKP
27	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIKQKQ
28	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIKQKS
29	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIKQKT
30	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIKQKV
31	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIKQKW
32	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIKQKY
33	Ac - HSDAVFTDQYTRLRKQMAKKYLQSIKQRI
34	Ac - HSDAVFTDQYTRLRKQMAKKYLQSIKQRI
35	Ac - HSDAVFTDQYTRLRKQMASKKYLQSIKQRI
36	Ac - HSDAVFTDQYTRLRKQMAAKKYLQSIQPKI
37	Ac - HSDAVFTDQYTRLRKQMASKKYLQSIQPKI

FIG. 1a

SEQ ID NO	Sequence
38	AC - HSDAVFTDNYTRLRKQVAAKKYLQSIKQKRY
39	AC - HSDAVFTDNYTRLRKQMAAKKYLQSIKQKRY
40	AC - HSDAVFTDNYTRLRKQVAAKKYLQSIKQK
41	AC - HTEAVFTDNYTRLRKQVAAKKYLQSIKQKRY
42	AC - HSDAVFTDNYTRLRKQLAVKKYLQDIKQGGT
43	AC - HSDAVFTDNYTRLRKQMAAKKYLQSIKQKR
44	AC - HSDAVFTDNYTRLRKOLAAKKYLQTIKQKRY
45	AC - HSDAVFTDNYTRLRKQMAAKKYLQTIKQKRY
46	AC - HSDAVFTDNYTRLRKQMAAHKYLQSIKQKRY
47	AC - HSDAVFTDNYTRLRKQMAAKHKLQSIKQKRY
48	AC - HSDAVFTDNYTRLRKQMAGKKYLQSIKQKR
49	AC - HSDAVFTDNYTRLRKQMAKKYLQSIKQKR
50	AC - HSDAVFTDNYTRLRKQMARKKYLQSIKQKR
51	AC - HSDAVFTDNYTRLRKQMASKKYLQSIKQKR
52	AC - HSDAVFTDNYTRLRKQMAAKKYLQSI PQKR
53	AC - HSDAVFTDNYTRLRKQMAAKKYLQSI QQKR
54	AC - HSDAVFTDNYTRLRKQMAAKKYLQSI RQKR
55	AC - HSDAVFTDNYTRLRKQMAAKKYLQSI KQRR
56	AC - HSDAVFTDNYTRLRKQMAAKKYLQSI KQKA
57	AC - HSDAVFTDNYTRLRKQMAAKKYLQSI KQKF
58	AC - HSDAVFTDNYTRLRKQMAAKKYLQSI KQKH
59	AC - HSDAVFTDNYTRLRKQMAAKKYLQSI KQKI
60	AC - HSDAVFTDNYTRLRKQMAAKKYLQSI KQKK
61	AC - HSDAVFTDNYTRLRKQMAAKKYLQSI KQKL
62	AC - HSDAVFTDNYTRLRKQMAAKKYLQSI KQKM
63	AC - HSDAVFTDNYTRLRKQMAAKKYLQSI KQKP
64	AC - HSDAVFTDNYTRLRKQMAAKKYLQSI KQKQ
65	AC - HSDAVFTDNYTRLRKQMAAKKYLQSI KQKS
66	AC - HSDAVFTDNYTRLRKQMAAKKYLQSI KQKT
67	AC - HSDAVFTDNYTRLRKQMAAKKYLQSI KQKV
68	AC - HSDAVFTDNYTRLRKQMAAKKYLQSI KQKW
69	AC - HSDAVFTDNYTRLRKQMAAKKYLQSI KQKY
70	AC - HSDAVFTDNYTRLRKQMAGKKYLQSI KQRI
71	AC - HSDAVFTDNYTRLRKQMAKKYLQSI KQRI
72	AC - HSDAVFTDNYTRLRKQMASKKYLQSI KQRI
73	AC - HSDAVFTDNYTRLRKQMAAKKYLQSI PQRI
74	AC - HSDAVFTDNYTRLRKQMASKKYLQSI RQRI

FIG. 1b

SEQ ID NO	Sequence
75	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKNKRY
76	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKRY
77	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKNK
79	Ac-HTEAVFTDQYTRLRKQVAAKKYLQSIKNKRY
80	Ac-HSDAVFTDQYTRLRKQLAVKKYLQDIKNGGT
81	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKR
82	Ac-HSDAVFTDQYTRLRKQLAAKKYLQTIKNKRY
83	Ac-HSDAVFTDQYTRLRKQMAAKKYLQTIKNKRY
84	Ac-HSDAVFTDQYTRLRKQMAAHKYLQSIKNKRY
85	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKR
86	Ac-HSDAVFTDQYTRLRKQMAGKKYLQSIKNKR
87	Ac-HSDAVFTDQYTRLRKQMAKKYLQSIKNKR
88	Ac-HSDAVFTDQYTRLRKQMARKKYLQSIKNKR
89	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIKNKR
90	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIIPNKR
91	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQNKR
92	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIRNKR
93	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNRR
94	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKA
95	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKF
96	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKH
97	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKI
98	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKK
99	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKL
100	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKM
101	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKP
102	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNQ
103	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKS
104	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKT
105	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKV
106	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKW
107	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKY
108	Ac-HSDAVFTDQYTRLRKQMAGKKYLQSIKNRI
109	Ac-HSDAVFTDQYTRLRKQMAKKYLQSIKNRI
110	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIKNRI
111	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIIPNRI
112	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIRNRI

FIG. 1c

SEQ ID NO	Sequence
113	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKQKRYC-PEG
114	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKRYC-PEG
115	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKQKQC-PEG
116	Ac-HTEAVFTDQYTRLRKQVAAKKYLQSIKQKRYC-PEG
117	Ac-HSDAVFTDQYTRLRKQLAVKKYLQDIKQGGTC-PEG
118	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKRC-PEG
119	Ac-HSDAVFTDQYTRLRKQLAAKKYLQTIKQKRYC-PEG
120	Ac-HSDAVFTDQYTRLRKQMAAKKYLQTIKQKRYC-PEG
121	Ac-HSDAVFTDQYTRLRKQMAAHKYLQSIKQKRYC-PEG
122	Ac-HSDAVFTDQYTRLRKQMAAKHYLQSIKQKRYC-PEG
123	Ac-HSDAVFTDQYTRLRKQMAKKYLQSIKQKRC-PEG
124	Ac-HSDAVFTDQYTRLRKQMAKKYLQSIKQKRC-PEG
125	Ac-HSDAVFTDQYTRLRKQMARKKYLQSIKQKRC-PEG
126	Ac-HSDAVFTDQYTRLRKQMAKKYLQSIKQKRC-PEG
127	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKRC-PEG
128	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQQKRC-PEG
129	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIRKRC-PEG
130	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQRRC-PEG
131	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKAC-PEG
132	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKFC-PEG
133	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKHC-PEG
134	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKIC-PEG
135	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKKC-PEG
136	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKLC-PEG
137	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKMC-PEG
138	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKPC-PEG
139	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKQC-PEG
140	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKSC-PEG
141	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKTC-PEG
142	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKVC-PEG
143	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKWC-PEG
144	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKYC-PEG
145	Ac-HSDAVFTDQYTRLRKQMAKKYLQSIKQRIC-PEG
146	Ac-HSDAVFTDQYTRLRKQMAKKYLQSIKQRIC-PEG
147	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIKQRIC-PEG
148	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQRIC-PEG
149	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIKQRIC-PEG

FIG. 1d

SEQ ID NO	Sequence
150	HSDGIFTDSYSRYRKQMAVKYLAALGKRYKQRVKNK
151	HSDGIFTDSYSRYRKQMAVKYLAALV
152	HSDAVFTDNYTRLRKQMAVKYLN SILN
153	HSDAVFTDQYTRLRKQVAAKKYLQSIKQKRY
154	Ac - HTDAVFTDQYTRLRKQVAAKKYLQSIKQKRY
155	HSDAVFTDQYTRLRKQVAAKKYLQSIKQKRYC - PEG
156	Ac - HTDAVFTDQYTRLRKQVAAKKYLQSIKQKRYC - PEG

FIG. 1e

Stability against DPP IV Cleavage

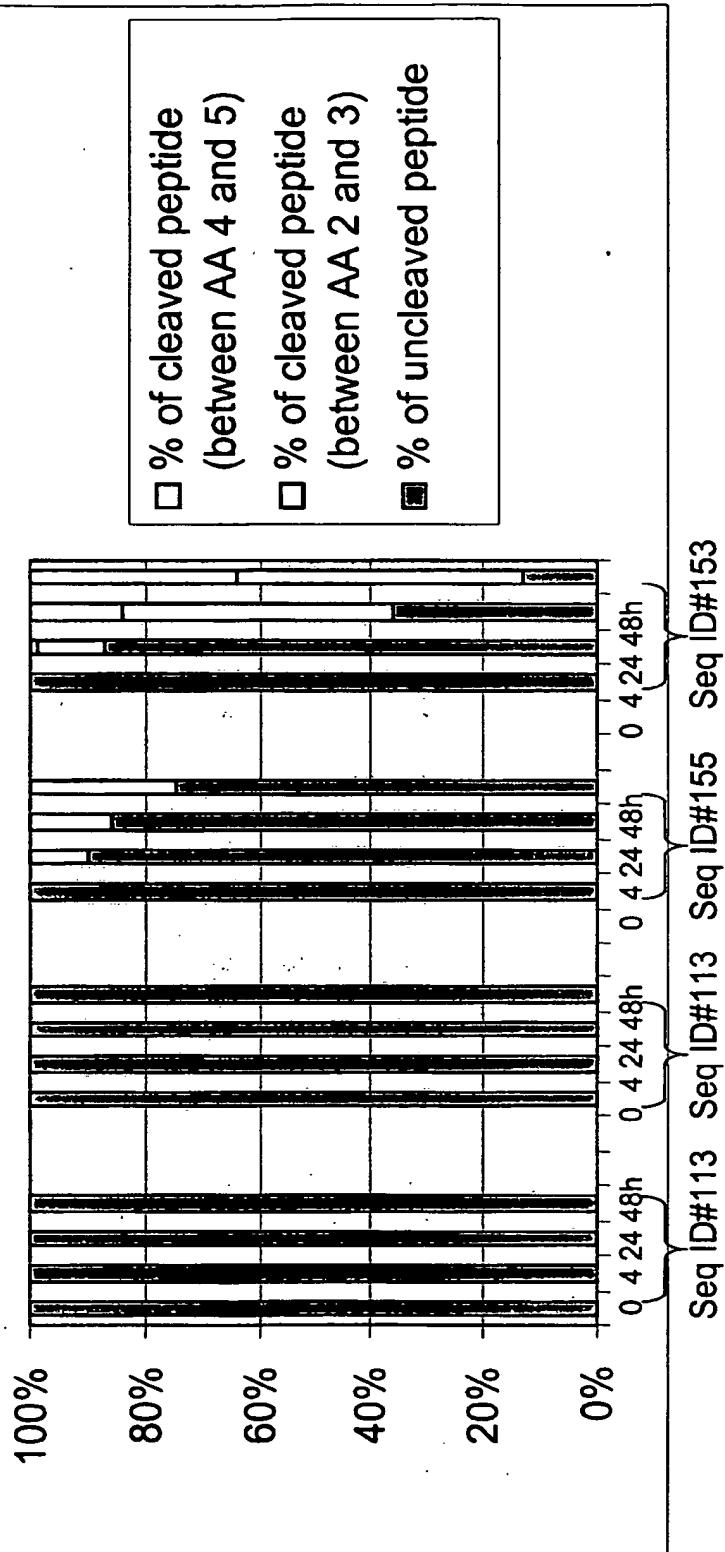


Figure 2a

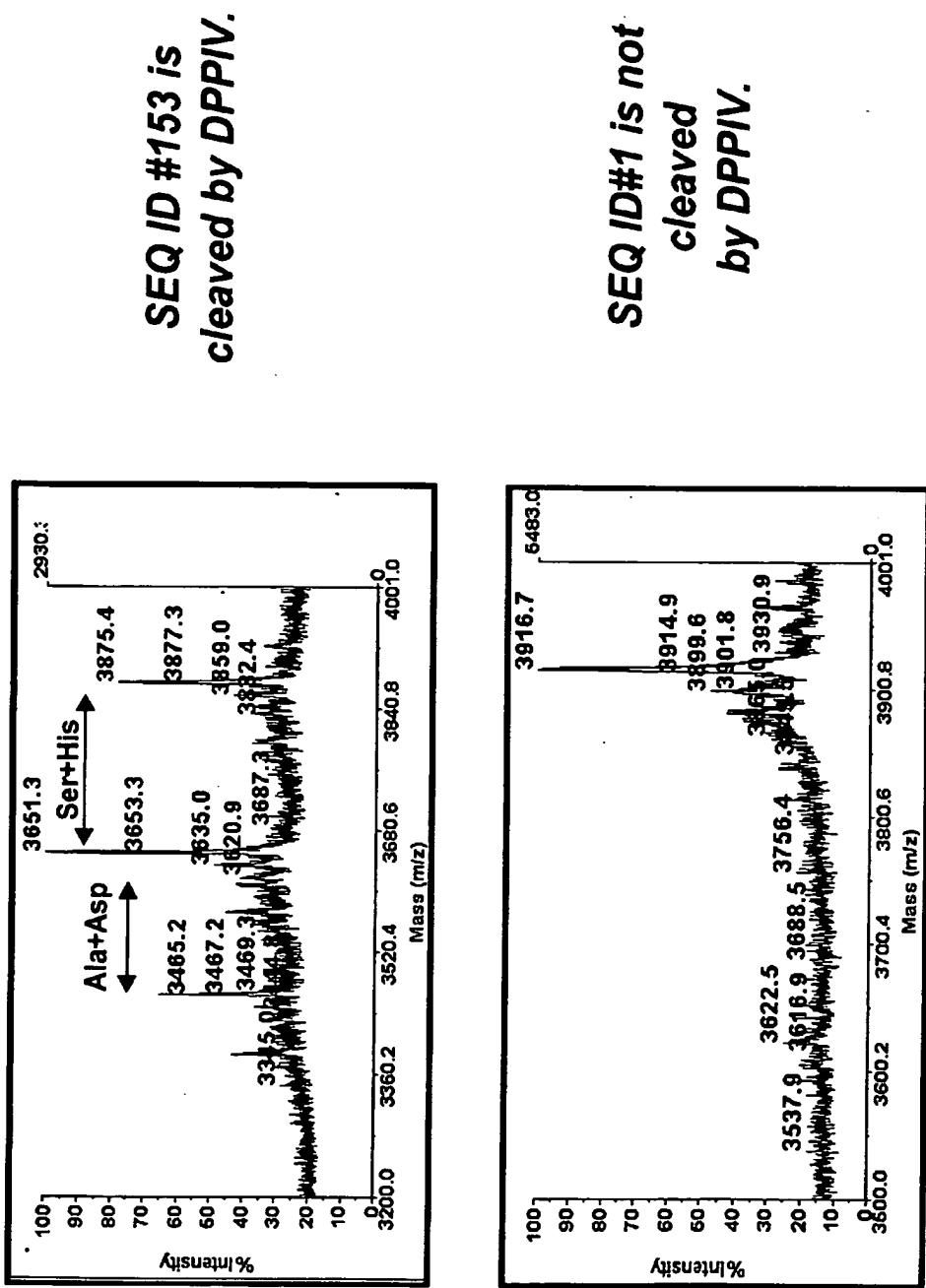


Figure 2b

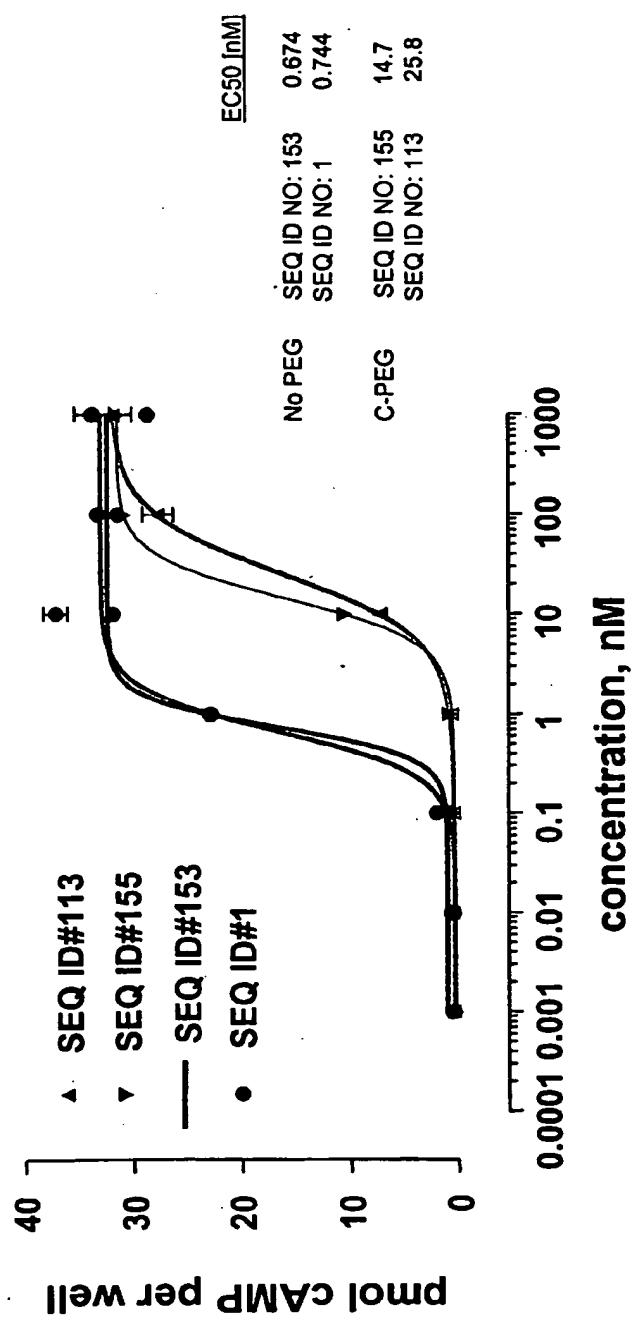


Figure 3

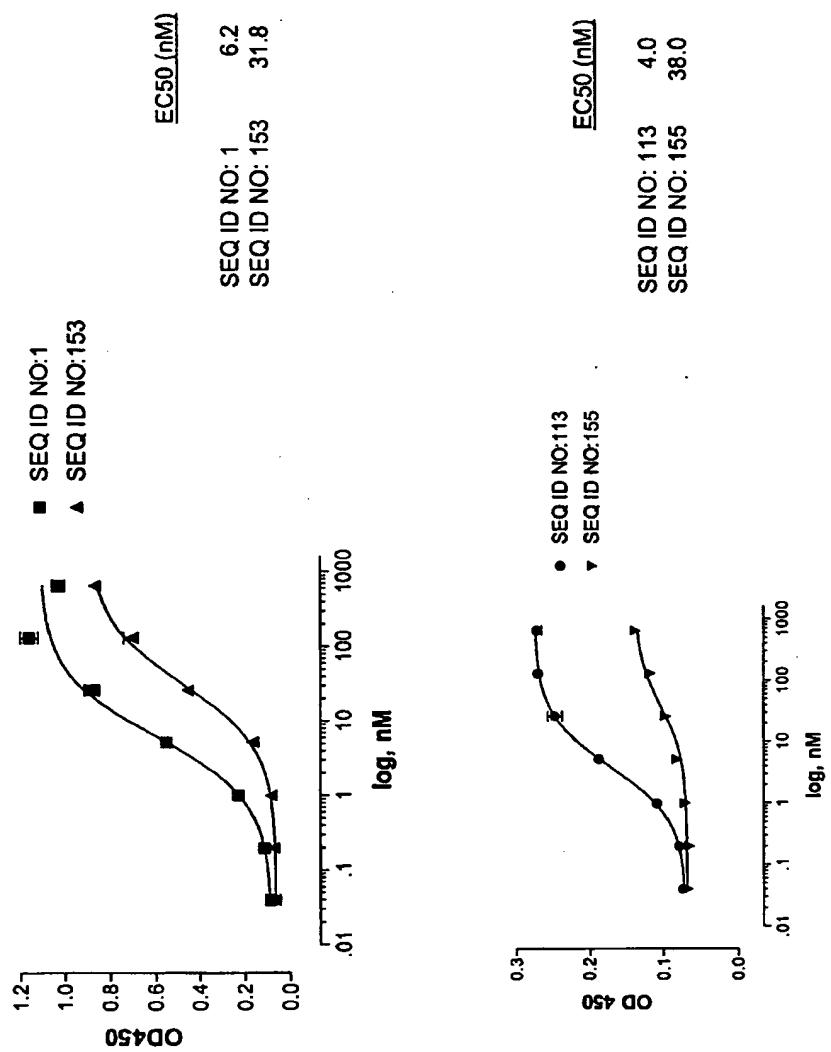


Figure 4

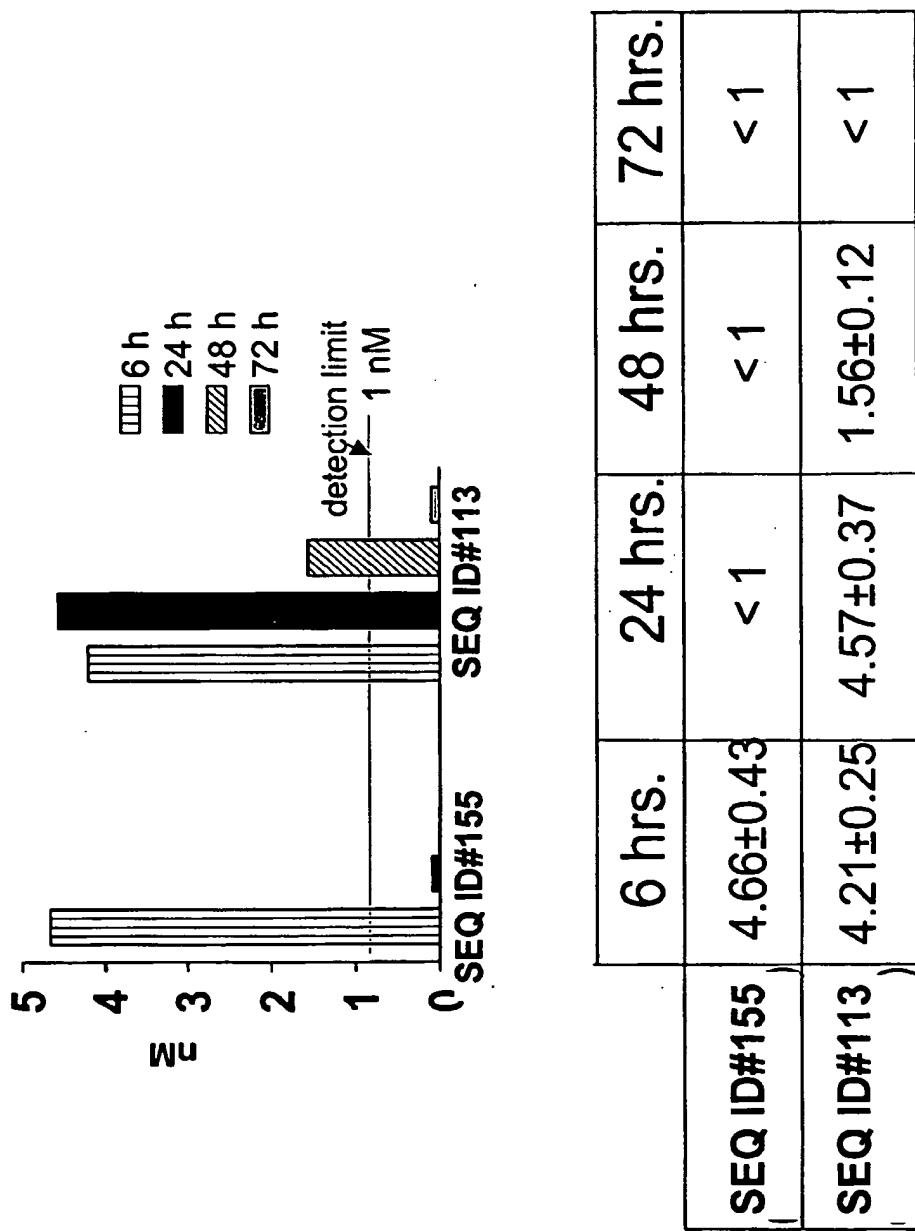


Figure 5a

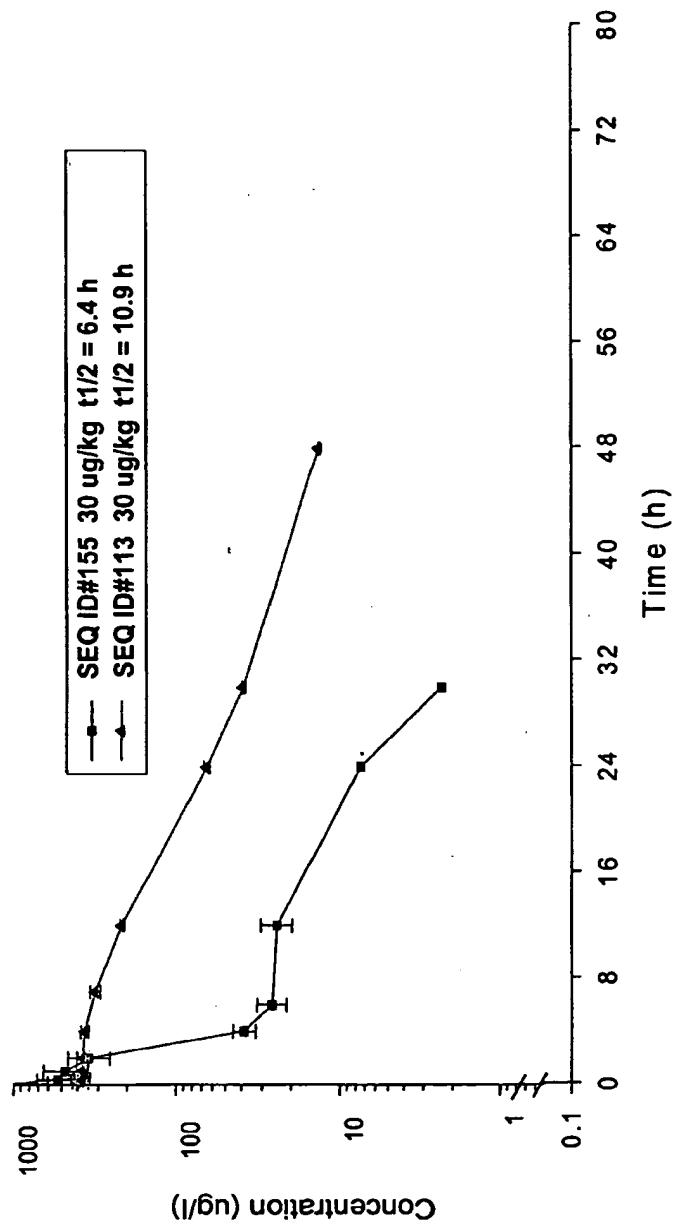


Figure 5b

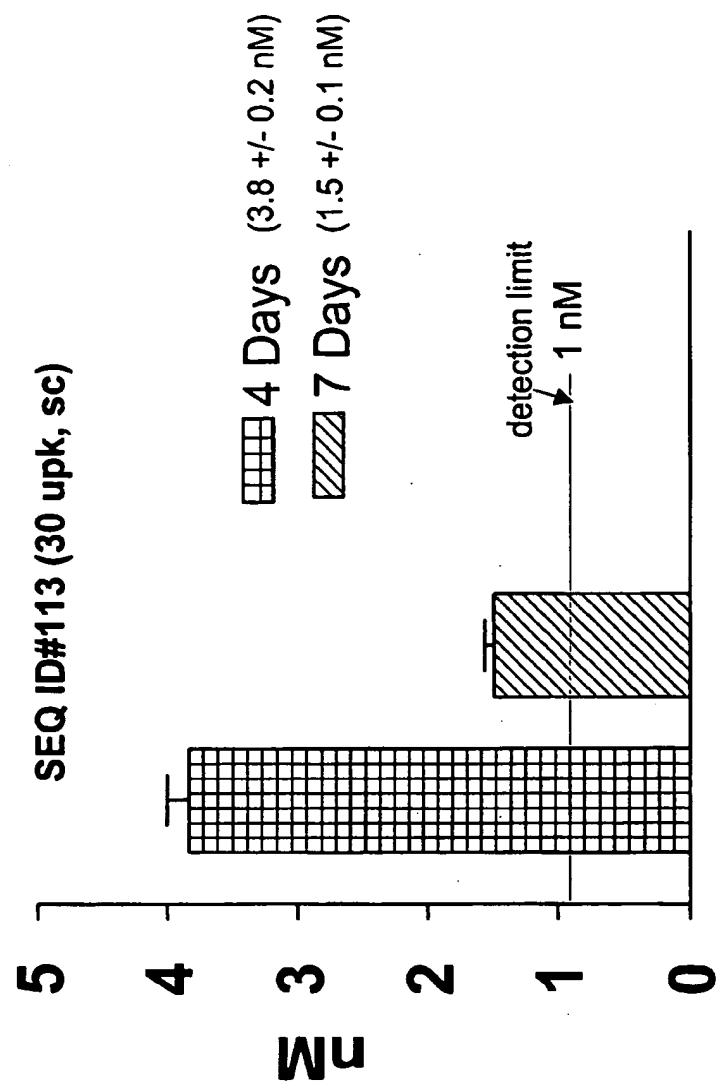


Figure 5c

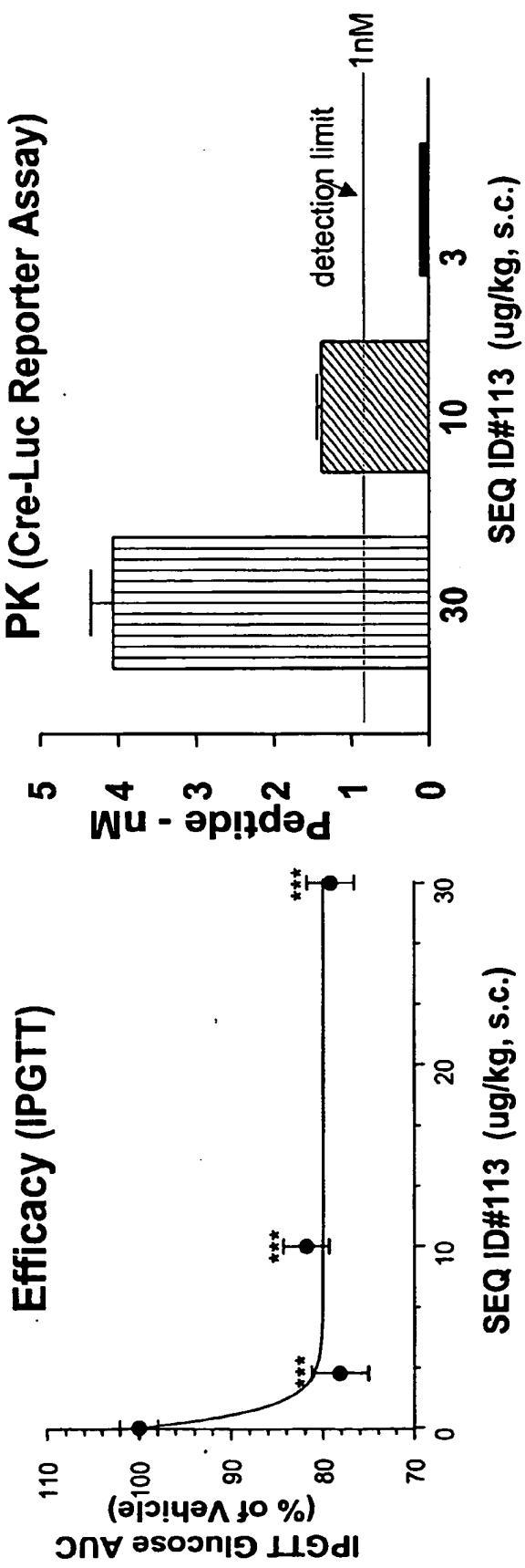


Figure 6a

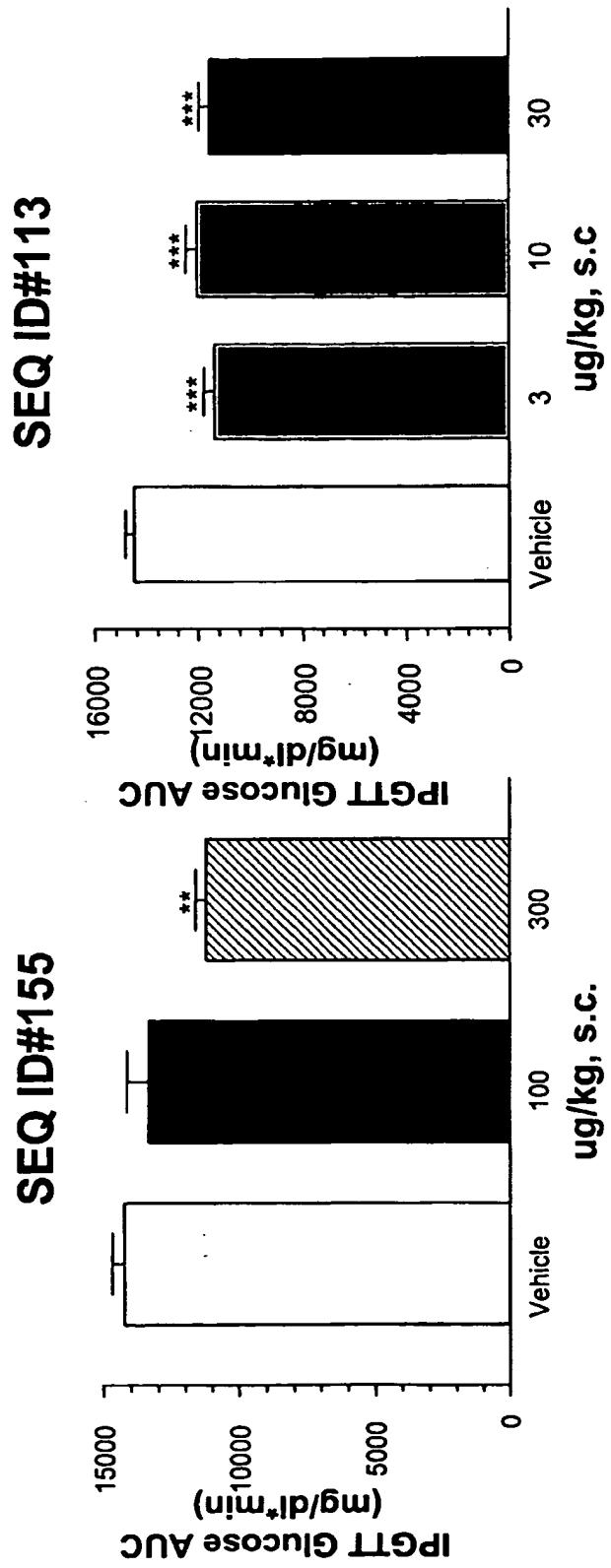


Figure 6b

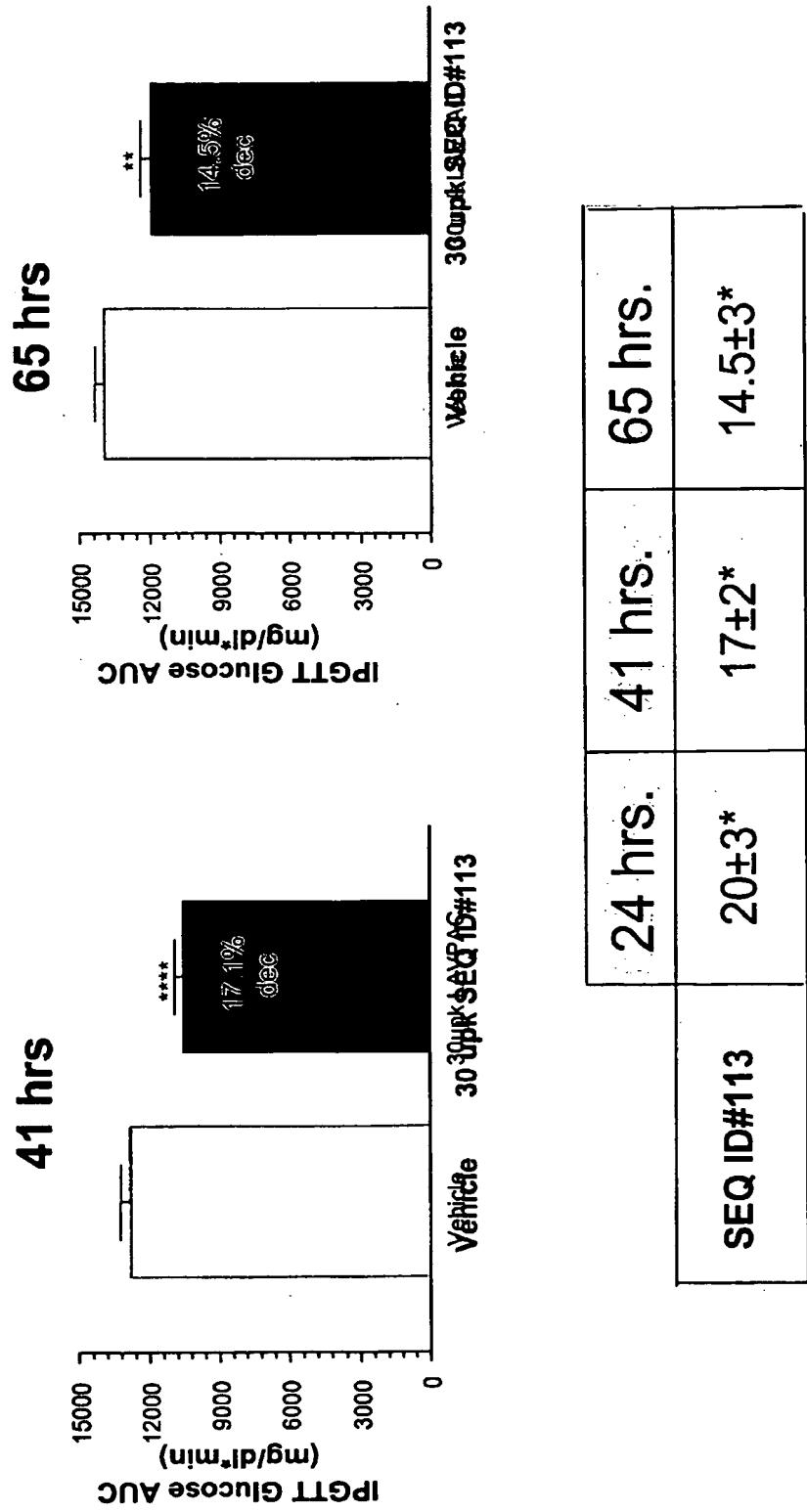


Figure 6c